

# Publikationen

## 2023

1. Keuter, S., H. Koch, B. Nowka, A. Lipski, M. Kruse, S. Lückner and E. Spieck. 2023. A novel *Nitrospira* lineage isolated from activated sludge using elevated temperatures. *FEMS Microbiology Letters*, 2023, 370, 1-10. DOI: 10.1093/femsle/fnad035
2. Weber, M., B. Göpfert, S. von Wezyka, M. Savin-Hoffmeyer, A. Lipski. 2023. Correlation between bacterial cell density and abundance of antibiotic resistance on milking machine surfaces assessed by cultivation and direct qPCR methods. *Microbial Ecology*. DOI: 10.1007/s00248-023-02225-7.
3. Kämpfer, P, A. Lipski, J. A. McInroy, D. Clermont, L. Lamothe, S. P. Glaeser and A. Criscuolo. *Paenibacillus auburnensis* sp. nov. and *Paenibacillus pseudetheri* sp. nov., isolated from the rhizosphere of *Zea mays*. *Int. J. Syst. Evol. Microbiol.* 2023;73:005808, DOI: 10.1099/ijsem.0.005808
4. Linden, M., A. Flegler, M. M. Feuereisen, F. Weber, A. Lipski, A. Schieber. Effects of flavonoids on membrane adaptation of food-associated bacteria. *BBA - Biomembranes*, 1865 (2023), 184137, DOI: 10.1016/j.bbamem.2023.184137

## 2022

5. Kämpfer, P., S.P. Glaeser, J. A. McInroy, D. Clermont, A. Lipski, A. Criscuolo. *Neobacillus rhizosphaerae* sp. nov., isolated from the rhizosphere, and reclassification of *Bacillus dielmonensis* as *Neobacillus dielmonensis* comb. nov. *Int. J. Syst. Evol. Microbiol.*, 2022, Vol 72 (11), DOI: 10.1099/ijsem.0.005636
6. Siems, K., K. Runzheimer, A. Rehm, O. Schwengers, D. Heidler von Heilborn, L. Kaser, F. Arndt, C. Neidhöfer, J. P. Mengel, M. Parcina, A. Lipski, T. Hain and R. Moeller. Phenotypic and genomic assessment of the potential threat of human spaceflight-relevant *Staphylococcus capitis* isolates under stress conditions. *Frontiers in Microbiology*. 2022. 13:1007143. DOI: 10.3389/fmicb.2022.1007143
7. Kämpfer, P, A. Lipski, L. Lamothe, D. Clermont, A. Criscuolo, J. A. McInroy & S. P. Glaeser. *Paenibacillus allorhizoplanae* sp. nov. from the rhizoplane of a *Zea mays* root. *Arch. Microbiol.* 204, 630 (2022). <https://doi.org/10.1007/s00203-022-03225-w>
8. Kämpfer, P. , S. P. Glaeser, A. Lipski, J. A. McInroy, D. Clermont, A. Criscuolo. *Sutcliffiella rhizosphaerae* sp. nov. isolated from roots. *Int. J. Syst. Evol. Microbiol.*, 2022, Vol 72, DOI: 10.1099/ijsem.0.005590.
9. Kämpfer, P. , A. Lipski, J. A. McInroy, D. Clermont, A. Criscuolo, S. P. Glaeser. *Bacillus rhizoplanae* sp. nov. from maize roots. *Int. J. Syst. Evol. Microbiol.*, 2022, Vol 72, DOI: 10.1099/ijsem.0.005450
10. Eisenberg, T, K. Mühldorfer, M. Erhard, A. Fawzy, S. Kehm, C. Ewers, T. Semmler, J. Blom, A. Lipski, J. Rau, P. Kämpfer, S. P. Glaeser. 2022. *Erysipelothrix analtis* sp. nov. , *Erysipelothrix aquatica* sp. nov. and *Erysipelothrix urinaevulpis* sp. nov., three novel species of the genus, and emended description of *Erysipelothrix*. *Int. J. Syst. Evol. Microbiol.* 72, 7. <https://doi.org/10.1099/ijsem.0.005454>

11. Flegler, A., Lipski, A. Engineered CRISPR/Cas9 system for transcriptional gene silencing in *Arthrobacter* species Indicates bacterioruberin is Indispensable for growth at low temperatures. *Curr Microbiol* 79, 199 (2022). <https://doi.org/10.1007/s00284-022-02887-5>.
12. Heidler von Heilborn, D., L.-L. Nover, M. Weber, G. Höltzl, N. Gisch, C. Waldhans, M. Mittler, J. Kreyenschmidt, C. Woehle, B. Hüttel, A. Lipski. 2022. Polar lipid characterization and description of *Chryseobacterium capnotolerans* sp. nov., isolated from high CO<sub>2</sub>-containing atmosphere and emended descriptions of the genus *Chryseobacterium*, and the species *C. balustinum*, *C. daecheongense*, *C. formosense*, *C. gleum*, *C. indologenes*, *C. joostei*, *C. scopthalmum* and *C. ureilyticum*. *Int. J. Syst. Evol. Microbiol.* 72:005372. DOI 10.1099/ijsem.0.005372
13. Mitzscherling J., J. McLean, D. Lipus, A. Bartholomäus, K. Mangelsdorf, A. Lipski, V. Roddatis, S. Liebner, D. Wagner. 2022. *Nocardioides alcanivorans* sp. nov., a novel hexadecane-degrading species isolated from plastic waste. *Int. J. Syst. Evol. Microbiol.* 71, 4. [doi.org/10.1099/ijsem.0.005319](https://doi.org/10.1099/ijsem.0.005319).
14. Mitzscherling J., J. McLean, D. Lipus, A. Bartholomäus, K. Mangelsdorf, A. Lipski, V. Roddatis, S. Liebner, D. Wagner. 2022. *Paenalcaligenes niemegkensis* sp. nov., a novel species of the family *Alcaligenaceae* isolated from plastic waste. *Int. J. Syst. Evol. Microbiol.* 71, 4. [doi.org/10.1099/ijsem.0.005333](https://doi.org/10.1099/ijsem.0.005333).
15. Flegler, A., J. Iswara, A. T. Mänz, F. S. Schocke, W. A. Faßbender, G. Hölzl, A. Lipski. 2022. Exogenous fatty acids affect membrane properties and cold adaptation of *Listeria monocytogenes*. *Scientific Reports* 12, 1499, <https://doi.org/10.1038/s41598-022-05548-6>
16. Gohrbrandt, M., A. Lipski, J. W. Grimshaw, J. A. Buttress, Z. Naig, B. Herkenhoff, S. Walter, R. Kurre, G. Deckers-Hebestreit, H. Strahl. 2022. Low membrane fluidity triggers lipid phase separation and protein segregation in living bacteria. *The EMBO journal*, e109800, [doi org/10.15252/embj.2021109800](https://doi.org/10.15252/embj.2021109800).
17. Flegler, A., A. Lipski, 2022. The C<sub>50</sub> carotenoid bacterioruberin regulates membrane fluidity in pink-pigmented *Arthrobacter* species. *Arch Microbiol* 204, 70. [doi org/10.1007/s00203-021-02719-3](https://doi.org/10.1007/s00203-021-02719-3).
18. Lipski, A., 2022. *Arthrobacter* spp. in milk and milk products. In: Mc Sweeney, P.L.H., McNamara, J.P. (Eds.), *Encyclopedia of Dairy Sciences*, vol. 4. Elsevier, Academic Press, pp. 10-16. [doi 10.1016/B978-0-08-100596-5.01029-5](https://doi.org/10.1016/B978-0-08-100596-5.01029-5) .

## 2021

19. Heidler von Heilborn, D., J. Reinmüller, G. Hölzl, J.P. Meier-Kolthoff, C. Woehle, M. Marek, B. Hüttel, A. Lipski. 2021. *Sphingomonas aliaeris* sp. nov., a new species isolated from pork steak packed under modified atmosphere. *Int. J. Syst. Evol. Microbiol.* 71:004973. [doi 10.1099/ijsem.0.004973](https://doi.org/10.1099/ijsem.0.004973) .
20. Sun, Y., G. Shan, V. Rosner, A. Milimonka, W. Buescher, A. Lipski, C. Maack, W. Berchtold, D. A. Grantz, Y. Wang. 2021. A multi-sensor mini-bioreactor to preselect silage inoculants by tracking metabolic activity in situ during fermentation. *Front. Microbiol.* [doi: 10.3389/fmicb.2021.673795](https://doi.org/10.3389/fmicb.2021.673795) .

21. Shan, G., W. Buescher, C. Maack, A. Lipski, I-H. Acir, M. Trimborn, F. Kuellmer, Y. Wang, D.A. Grantz, Y. Sun. 2021. Dual sensor measurement shows that temperature outperforms pH as an early sign of aerobic deterioration in maize silage. *Scientific Reports* 11:8686. DOI 10.1038/s41598-021-88082-1 .
22. Flegler, A., V. Kombeitz, A. Lipski. 2021. Menaquinone-mediated regulation of membrane fluidity is relevant for fitness of *Listeria monocytogenes*. *Arch. Microbiol.* DOI 10.1007/s00203-021-02322-6 .
23. Hahne, J., A. Lipski. 2021. Growth interferences between bacterial strains from raw cow's milk and their impact on growth of *Listeria monocytogenes* and *Staphylococcus aureus*. *J. Appl. Microbiol.* DOI 10.1111/jam.15056 .

## 2020

24. Flegler, A., K. Runzheimer, V. Kombeitz, A.T. Mänz, D. Heidler von Heilborn, L. Etbach, A. Schieber, G. Höltzl, B. Hüttel, C. Woehle, A. Lipski. 2020. *Arthrobacter bussei* sp. nov., a pink-coloured organism isolated from cheese made of cow's milk. *Int. J. Syst. Evol. Microbiol.* 70: 3027-3036.
25. Seel, W., D. Baust, D. Sons, M. Albers, L. Etbach, J. Fuss, A. Lipski. 2020. Carotenoids are used as regulators for membrane fluidity by *Staphylococcus xylosus*. *Scientific Reports* 10: 330. DOI 10.1038/s41598-019-57006-5 .

## 2019

26. Weber, M., J. Liedtke, S. Plattes, A. Lipski. 2019. Bacterial community composition of biofilms in milking machines of two dairy farms assessed by a combination of culture-dependent and -independent methods. *PLoS ONE* 14(9):e0222238. DOI: 10.1371/journal.pone.0222238
27. Shan, G., W. Buescher, C. Maack, H. Zhou, D. A. Grantz, A. Lipski, I.-H. Acir, Y. Sun. 2019. An automatic smart measurement system with signal decomposition to partial dual-source CO<sub>2</sub> flux from maize silage. *Sensors and Actuators B: Chemical* 300: 127053. DOI: 10.1016/j.snb.2019.127053
28. Hahne, J., D. Isele,, J. Berning and A. Lipski. 2019. The contribution of fast growing, psychrotrophic microorganisms on biodiversity of refrigerated raw cow's milk with high bacterial counts and their food spoilage potential. *Food Microbiol.* 79:11-19. DOI: 10.1016/j.fm.2018.10.019

## 2018

29. Thiele S., A. Basse, J. W. Becker, A. Lipski, M. H. Iversen, G. Mollenhauer. 2018. Microbial communities in the nepheloid layers and hypoxic zones of the Canary Current upwelling system. *MicrobiologyOpen* DOI: 10.1002/mbo3.705 .
30. Badalyan G., C. Diaz, M. Bücking and A. Lipski. 2018. Novel sensor platform for rapid detection and quantification of coliforms on food contact surfaces. *J. Microbiol. Methods* 153: 74-83. DOI: 10.1016/j.mimet.2018.09.009 .

31. Seel, W., A. Flegler, M. Zunabovic-Pichler and A. Lipski. 2018. Increased isoprenoid quinone concentration modulates membrane fluidity in *Listeria monocytogenes* at low growth temperatures. *J. Bacteriol.* DOI: 10.1128/JB.00148-18 .
32. Weber, M., W. Schünemann, J. Fuß, P. Kämpfer and A. Lipski. 2018. *Stenotrophomonas lactitubi* sp. nov. and *Stenotrophomonas indicatrix* sp. nov., isolated from surfaces with food contact. *Int. J. Syst. Evol. Microbiol.* 68: 1830-1838. DOI 10.1099/ijsem.0.002732 .
33. Hahne, J., T. Kloster, S. Rathmann, M. Weber and A. Lipski. 2018. Isolation and characterization of *Corynebacterium* spp. from bulk tank raw cow's milk of different dairy farms in Germany. *PLoS ONE* . DOI 10.1371/journal.pone.0194365.

## 2017

34. Lipski, A., 2017. Die Grenzen der Identifizierung: Wie erkennt man neue Bakterienspezies in Lebensmitteln und wie geht man damit um? *Food-Lab.* 3:48-52.
35. Frindte, K., S.A.Maarastawi, A. Lipski, J. Hamacher and C. Knief. 2017. Characterization of the first rice paddy cluster I isolate, *Methyloterricola oryzae* gen. nov., sp. nov. and amended description of *Methylomagnum ishizawai*. *Int. J. Syst. Evol. Microbiol.* DOI 10.1099/ijsem.0.002319.
36. Li, M., G. Shan, H. Zhou, W. Büscher, C. Maack, K.H. Jungbluth, A. Lipski, D.A. Grantz, Y. Fan, D. Ma, Z. Wang, Q. Cheng and Y. Sun. 2017. CO<sub>2</sub> production, dissolution and pressure dynamics during silage production: multi-sensor-based insight into parameter interactions. *Scientific Reports.* 7: 14721
37. Sun, Y., M. Li, H. Zhou, G. Shan, Q. Cheng, K. H. Jungbluth, W. Buescher, C. Maack, A. Lipski, Z. Wang, Y. Fan. 2017. In situ measurement and simulation of oxygen diffusion and heat transfer in maize silage relative to the silo surface. *Comp. Electr. Agricult.* 137:1-8

## 2016

38. Zimmermann, J., C. Rückert, J. Kalinowski and A. Lipski. 2016. *Corynebacterium lactis* sp. nov., isolated from raw cow's milk. *Int. J. Syst. Evol. Microbiol.* 66: 5288-5293
39. Seel, W., J. Derichs and A. Lipski. 2016. Increasing Biomass Production of Mesophilic Food-associated Bacteria by Lowering Growth Temperature from 30°C to 10°C. *Appl. Environ. Microbiol.* 82 (13): 3754-3764

## 2015

40. Berger, S., Stamminger, R. Schünemann, W. M. and A. Lipski. 2015. Development of a Method for the Analysis of Microbial Load Reduction Factors on Dishes Cleaned by Hand and by Machine. *Tenside Surf. Det.* 52 (3): 206-212

## 2014

41. Weber, M., J. Geißert, M. Kruse and A. Lipski. 2014. Comparative analysis of bacterial community composition in bulk tank raw milk by culture-dependent and culture-

independent methods using the viability dye propidium monoazide. *J. Dairy Sci.* 97 (11): 6761-6776

42. Derichs, J., P. Kämpfer and A. Lipski 2014. *Pedobacter nutrimenti* sp. nov., isolated from chilled food. *Int J Syst Evol Microbiol* 64: 1310-1316
43. Szczepanski, S., and A. Lipski. 2014. Essential oils show specific inhibiting effects on bacterial biofilm formation. *Food Control* 36: 224-229

## 2013

44. Wiertz R., S. C. Schulz, U. Müller, P. Kämpfer and A. Lipski. 2013. *Corynebacterium frankenforstense* sp. nov. and *Corynebacterium lactis* sp. nov., isolated from raw cow milk. *Int. J. Syst. Evol. Microbiol.* 63: 4495-4501.
45. Bajerski, F., L. Ganzert, K. Mangelsdorf, A. Lipski, H.-J. Busse, L. Padur and D. Wagner. 2013. *Herbaspirillum psychrotolerans* sp. nov., a novel member of the family *Oxalobacteraceae* from a glacier forefield of the Larsemann Hills, East Antarctica. *Int. J. Syst. Evol. Microbiol.* 63: 3197-3203.
46. Kruse, M., S. Zumbärgel, E. Bakker, E. Spieck, T. Eggers and A. Lipski. 2013. The nitrite-oxidizing community from activated sludge from a municipal wastewater treatment plant determined by fatty acid methyl ester-stable isotope probing. *System Appl. Microbiol.* 36: 517-524.
47. Bajerski, F. L. Ganzert, K. Mangelsdorf, L. Padur, A. Lipski and D. Wagner. 2013. *Chryseobacterium frigidisoli* sp. nov., a psychrotolerant species of the family *Flavobacteriaceae* isolated from sandy permafrost from a glacier forefield. *Int. J. Syst. Evol. Microbiol.* 63: 2666-2671.
48. Kruse, M., S. Keuter, E. Bakker, E. Spieck, T. Eggers and A. Lipski. 2013. Relevance and diversity of *Nitrospira* populations in biofilters of brackish RAS. *PLoS ONE* 8: e64737.

## 2012

49. Lipski, A. and P. Kämpfer. 2012. *Aquamicrobium ahrensii* sp. nov. and *Aquamicrobium segne* sp. nov., isolated from experimental biofilters. *Int. J. Syst. Evol. Microbiol.* 62: 2511-2516.

## 2011

50. Keuter, S., M. Kruse, A. Lipski and E. Spieck. 2011. Relevance of *Nitrospira* for nitrite oxidation in a marine recirculation aquaculture system and physiological features of a *Nitrospira marina*-like isolate. *Environmental Microbiology*, 13: 2536-2547.
51. Ganzert, L., F. Bajerski, K. Mangelsdorf, A. Lipski, and D. Wagner. 2011. *Leifsonia psychrotolerans* sp. nov., a new psychrotrophic species of the family *Microbacteriaceae* from Livingston Island, Antarctica. *International Journal of Systematic and Evolutionary Microbiology*, 61: 1938-1943.
52. Bajerski, F., L. Ganzert, K. Mangelsdorf, A. Lipski, and D. Wagner. 2011. *Cryobacterium arcticum* sp. nov., a novel psychrotolerant species from Store Koldewey, Northeast-

Grennland. *International Journal of Systematic and Evolutionary Microbiology*, 61: 1849-1853.

53. Ganzert, L., A. Lipski, H-W. Hubberten and Dirk Wagner. 2011. The impact of different soil parameters on the community structure of dominant bacteria from nine different soils located on Livingston Island, South Shetland Archipelago, Antarctica. *FEMS Microbiology Ecology*, 76: 476-491.
54. Spieck, E. and A. Lipski. 2011. Cultivation, Growth Physiology and Chemotaxonomy of Nitrite-Oxidizing Bacteria. *Methods in Enzymology*, 486: 109-130.
55. Lebedeva, E.V., S. Off, S. Zumbrägel, M. Kruse, A. Shagzhina, S. Lücker, F. Maixner, A. Lipski, H. Daims, and E. Spieck. 2011. Isolation and characterization of a moderately thermophilic nitrite-oxidizing bacterium from a geothermal spring. *FEMS Microbiology Ecology*, 75: 195-204.
56. Ganzert; L., F. Bajerski, K. Mangelsdorf, A. Lipski, and D. Wagner. 2011. *Arthrobacter livingstonensis* sp. nov. and *Arthrobacter cryotolerans* sp. nov., salt-tolerant and psychrotolerant species from Antarctic soil. *International Journal of Systematic and Evolutionary Microbiology*, 61: 979-984

## 2010

57. Friedrich, M. M., and A. Lipski. 2010. Characterisation of hexane-degrading microorganisms in a biofilter by stable-isotope based fatty acid analysis, FISH and cultivation. *Appl. Microbiol. Biotechnol.*, 85: 1189-1199.

## 2009

58. Oren, A., K. B. Sørensen, D. E. Canfield, A. P. Teske, D. Ionescu, A. Lipski and K. Altendorf. 2009. Microbial communities and processes within a hypersaline gypsum crust in a saltern evaporation pond (Eilat, Israel). *Hydrobiologia*, 626:15-26.
59. Wagner, M., M. Wagner, G. Nowack und A. Lipski. 2009. Schwefel biologisch an den Kragen. *Biogas-Journal* 12: (1) 50-53.

## 2008

60. Friedrich, M. M., and A. Lipski. 2008. *Alkanibacter difficilis* gen. nov., sp. nov. and *Singularimonas variicoloris* gen. nov., sp. nov., hexane-degrading bacteria isolated from a hexane-treated biofilter. *Int J. Syst. Evol. Microbiol.*, 58: 2324-2329.
61. Schlösser, A., A. Lipski, J. Schmalfuß, F. Kugler and G. Beckmann. 2008. *Oceaniserpentilla haliotis* gen. nov., sp. nov., a marine bacterium isolated from haemolymph serum of blacklip abalone. *Int. J. Syst. Evol. Microbiol.*, 58: 2122-2125.
62. Rodríguez, C., K. Altendorf, K. Smalla and A. Lipski. 2008. Spraying of oxytetracycline and gentamicin onto field-grown coriander did not affect the abundance of resistant bacteria, resistance genes, and broad host range plasmids detected in tropical soil bacteria. *Biol. Fertil. Soils*. 44:589-596.
63. Herzog, P., I. Winkler, D. Wolking, P. Kämpfer and A. Lipski. 2008. *Chryseobacterium ureilyticum* sp. nov., *Chryseobacterium gambrini* sp. nov., *Chryseobacterium pallidum*

sp. nov., and *Chryseobacterium molle* sp. nov., four new species isolated from beer bottling plants. *Int J. Syst. Evol. Microbiol.*, 58:26-33.

64. Timke, M., N. Q. Wang-Lieu, K. Altendorf and A. Lipski. 2008. Characterization of yeasts from beer bottling plant associated biofilms. *Antonie van Leeuwenhoek*, 93:151-161.

## 2007

65. Rodríguez, C., A. Wachlin, K. Altendorf, F. García and A. Lipski. 2007. Diversity and antimicrobial susceptibility of oxytetracyclin-resistant isolates of *Stenotrophomonas* sp. and *Serratia* sp. associated with Costa Rican crops. *J. Appl. Microbiol.* 103:2550-2560.
66. Ionescu, D. A. Lipski. K. Altendorf and A. Oren. 2007. Characterization of the endoevaporitic microbial communities in a hypersaline gypsum crust by fatty acid analysis. *Hydrobiologia*, 576:15-26.
67. Wagner, D., A. Gattinger, A. Embacher, E.-M. Pfeiffer, M. Schloter and A. Lipski. 2007. Methanogenic activity and biomass in Holocene permafrost deposits of the Lena Delta, Siberian Arctic and its implication for the global methane budget. *Global Change Biology* 13:1089-1099.
68. Alawi, M., A. Lipski, T. Sanders, E.-M. Pfeiffer and E. Spieck. 2007. Cultivation of a novel cold-adapted nitrite oxidizing *Betaproteobacterium* from the Siberian Arctic. *The ISME Journal*, 1:256-264.
69. Özcan, N., C. S. Ejsing, A. Shevchenko, A. Lipski, S. Morbach and R. Krämer. 2007. Osmolality, temperature, and membrane lipid composition modulate the activity of betaine transporter BetP in *Corynebacterium glutamicum*. *J. Bacteriol.* 189:7485-7496.

## 2006

70. Knief, C., S. Kolb, P. L. E. Bodelier, A. Lipski and P. F. Dunfield. 2006. The active methanotrophic community in hydromorphic soils changes in response to changing methane concentration. *Environ. Microbiol.*, 8:321-333.
71. Dyckmans, J, H. Flessa, A. Lipski, M. Potthoff and F. Beese. 2006. Microbial biomass and activity under oxic and anoxic conditions as affected by nitrate additions. *J. Plant Nutr. Soil Sci.*, 169:108-115.
72. Spieck, E., C. Hartwig, I. McCormack, F. Maixner, M. Wagner, A. Lipski and H. Daims. 2006. Selective enrichment and molecular characterization of a previously uncultured *Nitrospira*-like bacterium from activated sludge. *Environ. Microbiol.*, 8:405-415
73. Rodríguez, C., L. Lang, A. Wang, K. Altendorf, F. García, and A. Lipski. 2006. Lettuces for human consumption collected in Costa Rica shelter complex communities of gentamicin and oxytetracycline resistant bacteria. *Appl. Environ. Microbiol.* 72:5870-5876.
74. Lipski, A. 2006. Detection of autotrophic sulphur- and iron-oxidizing bacteria using labelled fatty acid methyl esters (FAMES). In: Molecular approaches to soil, rhizosphere and plant microorganism analysis (J. E. Cooper and J. R. Rao, eds.), p.132-145, Oxfordshire, CABI.

## 2005

75. Timke, M., D. Wolking, N. Q. Wang-Lieu, K. Altendorf, and A. Lipski. 2005. Microbial composition of biofilms in a brewery investigated by fatty acid analysis, fluorescence in situ hybridisation and isolation techniques. *Appl. Microbiol. Biotechnol.* 66:100-107.
76. Lipski, A. 2005. Ein neuer Fokus bei der Bekämpfung von Biofilmen: Die Pionierorganismen auf gereinigten Flächen. *Brauerei-Forum* 7:178-179.
77. Wagner, D., A. Lipski, A. Embacher and A. Gattinger. 2005. Methane fluxes in permafrost habitats of the Lena Delta: effects of microbial community structure and organic matter quality. *Environ. Microbiol.* 7:1582-1592
78. Lipski, A. and E. Stackebrandt. 2005. Genus *Luteimonas*. In: *Bergey's Manual of Systematic Bacteriology* (G. Garrity, ed.), p.93-94, 2th. ed., Vol. 2, New York, Springer.
79. Lipski, A. and E. Stackebrandt. 2005. Genus *Pseudoxanthomonas*. In: *Bergey's Manual of Systematic Bacteriology* (G. Garrity, ed.). p.105-106, 2th. ed., Vol. 2, New York, Springer.
80. Timke, M., N. Q. Wang-Lieu, K. Altendorf and A. Lipski. 2005. Community structure and diversity of biofilms from a beer bottling plant revealed by 16S rRNA gene clone libraries. *Appl. Environ. Microbiol.*, 71:6446-6452.
81. Timke, M., N. Q. Wang-Lieu, K. Altendorf and A. Lipski. 2005. Fatty acid analysis and spoilage potential of biofilms from two breweries. *J. Appl. Microbiol.*, 99:1108-1122.
82. Lipski, A., J. Piehl, and M. Friedrich. 2005. Stable isotope probing as an effective tool for direct identification of active microorganisms in biofilters. In: *Biotechniques for Air Pollution Control. Proceedings of the International Congress Biotechniques for Air Pollution Control* (C. Kennes and M. C. Veiga, eds.). p. 31-37. A Coruna, Spain, October 5-7. 2005.
83. Oren, A., D. Ionescu, A. Lipski and K. Altendorf. 2005. Fatty acid analysis of a layered community of cyanobacteria developing in a hypersaline gypsum crust. *Algological Studies* 117:339-347.

## 2004

84. Lipski, A., M. Timke and K. Altendorf. 2004. The microbial texture of bottling plant associated biofilms. *European Brewery Convention Monograph* 32. Fachverlag Hans Carl, Nürnberg

## 2003

85. Friedrich, U., H. Van Langenhove, K. Altendorf and A. Lipski. 2003. Microbial community and physicochemical properties of an industrial waste gas biofilter and design of 16S rRNA-targeted oligonucleotide probes. *Environ. Microbiol.* 5:183-201.
86. Knief, C., K. Altendorf and A. Lipski. 2003. Linking autotrophic activity in environmental samples with specific bacterial taxa by detection of <sup>13</sup>C-labeled fatty acids. *Environ. Microbiol.* 5:1155-1167.



87. Knief, C., A. Lipski and P. F. Dunfield. 2003. Diversity and activity of methanotrophic bacteria in different upland soils. *Appl. Environ. Microbiol.* 69:6703-6714.

## 2002

88. Lipski, A. and K. Altendorf. 2002. Identification of the degrading microorganisms in biofilters by in-situ labeling. Proceedings of the 5th USC-TRG Conference on Biofiltration. Eds.: J. S. Devinny, F. E. Reynolds, jr. p. 61-67.
89. Friedrich, U., K. Prior, K. Altendorf and A. Lipski. 2002. High bacterial diversity of a waste gas-degrading community in an industrial biofilter as shown by a 16S rDNA clone library. *Environ. Microbiol.* 4:721-734.

## 2001

90. Lipski, A., U. Friedrich and K. Altendorf. 2001. Application of rRNA-targeted oligonucleotide probes in biotechnology. *Appl. Microbiol. Biotechnol.* 56:40-57.
91. Alexandrino, M. Knief, C and A. Lipski. 2001. Stable isotope-labeling of styrene-degrading microorganisms in biofilters. *Appl. Environ. Microbiol.* 67:4796-4804.
92. Lipski, A., E. Spieck, A. Makolla and K. Altendorf. 2001. Fatty acid profiles of nitrite-oxidizing bacteria reflect their phylogenetic heterogeneity. *System. Appl. Microbiol.* 24:277-384

## 2000

93. Finkmann, W., K. Altendorf, E. Stackebrandt and A. Lipski. 2000. Characterization of N<sub>2</sub>O-producing *Xanthomonas*-like isolates from biofilters as *Stenotrophomonas nitritireducens* sp. nov., *Luteimonas mephitis* gen. nov., sp. nov., and *Pseudoxanthomonas broegbernensis* gen. nov., sp. nov. *Int. J. Syst. Evol. Microbiol.* 50:273-282.
94. White, G.F., K. I. Racher, A. Lipski, F. R. Hallett and J. M. Wood. 2000. Physical properties of liposomes and proteoliposomes prepared from *Escherichia coli* polar lipids. *Biochim. Biophys. Acta* 77915:1-12.

## 1999

95. Friedrich, U., M.M. Naismith, K. Altendorf and A. Lipski. 1999. Community analysis of biofilters using fluorescence in situ hybridization including a new probe for the *Xanthomonas*-branch of the *Proteobacteria*. *Appl. Environ. Microbiol.* 65:3547-3554.
96. von Keitz, V., A. Schramm, K. Altendorf and A. Lipski. 1999. Characterization of microbial communities of biofilters by fatty acid analysis and rRNA targeted oligonucleotide probes. *System. Appl. Microbiol.* 22:626-634.

## 1998

97. Reichert, K., A. Lipski, E. Stackebrandt and K. Altendorf. 1998. *Pseudonocardia asaccharolytica* sp. nov. and *Pseudonocardia sulfidoxydans* sp. nov., two new dimethyl disulfide degrading Actinomycetes. *Int. J. Syst. Bacteriol.* 48:441-449.

98. Lipski, A., K. Reichert, B. Reuter, C. Spröer and K. Altendorf. 1998. Identification of bacterial isolates from biofilters as *Paracoccus alkenifer* sp. nov. and *Paracoccus solventivorans* with emended description of *Paracoccus solventivorans*. *Int. J. Syst. Bacteriol.* 48:529-536.

#### 1997

99. Lipski, A., A. Droege, K. Reichert and K. Altendorf. 1997. Detection and diversity of styrene-degrading microorganisms from biofilters. In: *Biologische Abgasreinigung*. S. 265-268. VDI-Verlag. Düsseldorf.
100. Lipski, A., A. Nienaber, M. Moormann and K. Altendorf. 1997. Branched-chain aldehydes and ketones as substrates for bacterial isolates from biofilters. In: *Biologische Abgasreinigung*. S. 261-264. VDI-Verlag. Düsseldorf.
101. Reichert, K., A. Lipski, and K. Altendorf. 1997. Degradation of dimethyl disulfide and dimethyl sulfide by *Pseudonocardia* strains. In: *Biologische Abgasreinigung*. S. 269-272. VDI-Verlag. Düsseldorf.
102. Ahrens, A., A. Lipski, S. Klätte, H.-J. Busse, G. Auling and K. Altendorf. 1997. Polyphasic classification of proteobacteria isolated from biofilters. *System. Appl. Microbiol.* 20:255-267.
103. Lipski, A., and K. Altendorf. 1997. Identification of heterotrophic bacteria isolated from ammonia-supplied experimental biofilters. *System. Appl. Microbiol.* 20:448-457.
104. Finkmann, W., A. Lipski and K. Altendorf. 1997. Characterization of nitrous oxide (N<sub>2</sub>O) producing bacterial isolates from biofilters. In: *Proceedings (part II) Eleventh forum for applied biotechnology*.

#### 1995

105. Lipski, A., und K. Altendorf. 1995. *Actinomadura nitritigenes* sp. nov., isolated from experimental biofilters. *Int. J. Syst. Bacteriol.* 45:717-723.

#### 1994

106. Hund, K., E. Bauer, B. Bendinger, A. Hartmann, T. Held, A. Kolk, A. Lipski, U. Necker, U. Peters, C. Plas, K.-H. Reis, A. Remde, K. Rönnpagel, L. Webb, L. Wünsche. 1994. Regeneration mikrobieller Aktivität in Böden nach natürlichen Streßsituationen - Bewertungskriterium für die Bodenqualität. *BioEngineering* 6:38-41.
107. Lipski, A., A. Ahrens, K. Reichert und K. Altendorf. 1994. Identifizierung von *Alcaligenes faecalis* als heterotrophem Nitrifizierer und aerobem Denitrifizierer in Biofiltern. In: *Biologische Abgasreinigung*. S. 251-259. VDI-Berichte 1104. VDI-Verlag. Düsseldorf.

#### 1992

108. Lipski, A., S. Klätte, B. Bendinger and K. Altendorf. 1992. Differentiation of Gram-negative, nonfermentative bacteria isolated from biofilters on the basis of fatty acid composition, quinone system, and physiological reaction profiles. *Appl. Environ. Microbiol.* 58:2053-2065.